IBL Data Sheet

Code No. 11090

Anti-Human
APP (N) (10D1) Mouse IgG MoAb

Volume : 100 µg
Lot No : 0B-522

Introduction : Amyloid precursor protein (APP) is precursor protein of Amyloid β which is major constituent of senile plaque in Alzheimer's disease. It is known that there are three major isoforms, APP695, APP751 and APP770, and are generated from alternative splicing of common precursor mRNA. Processing of APP occurs by two major pathways, non-amyloidogenic pathway and amyloidogenic pathway. The non-amyloidogenic pathway is mediated by α and γ-secretases and gives rise to a large fragment known as soluble APP α (sAPP α) and a small 3 kDa peptide known as p3. On the other hand, the Amyloidogenic pathway is mediated by β- and γ-secretases and yields soluble APPβ (sAPPβ) and Amyloid β. The physiologic function of APP itself is not clear, however, it is supposed that the function of APP in neuron system is different from that in other organ.

Antigen : N-terminal portion of Recombinant Human APP

Source : Mouse-Mouse hybridoma (Supernatant)
(X63-Ag8.653×BDF-1 spleen cells)

Clone : 10D1 **Subclass** : IgG_1

Purification : Purified with Protein A

Form : Lyophilized product from 1% BSA in PBS containing 0.05% NaN_3

How to use : 1.0 ml distilled water will be added to the product, then its concentration comes to 100 ug/ml

Dilution : PBS (pH7.4) containing 1% BSA

Stability : Lyophilized product, 5 years at 2 – 8 ℃
: Solution, 2 years at –20 ℃

Application : This antibody can be used for western blotting in concentration of about 2 µg/ml.
: This antibody can be used for immunoprecipitation in concentration of about 3 µg/ml.

Specificity : Noncross-reacts with Mouse.
This antibody can detect all isoforms of APP695, APP751 and APP770, and soluble APP (sAPPα and β).

Reference : Citron M, Oltersdorf T, Haass C, McConlogue L, Hung AY, Seubert P, Vigo-Pelfrey C, Lieberburg I, Selkoe DJ. Mutation of the beta-amyloid precursor protein in familial Alzheimer's disease increases beta-protein production. Nature **360** (6405): 672-674 (1992)

Goate A, Chartier-Harlin MC, Mullan M, et al. Segregation of a missense mutation in the amyloid precursor protein gene with familial Alzheimer's disease. Nature **349** 704-706 (1991)

Selkoe DJ. Normal and abnormal biology of the β-amyloid precursor protein. Annu. Rev. Neurosci. **17** 489-517 (1994)

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